	Application No.	Applicant(s)				
	10/736,040	BLANCHARD, RICHARD A.				
Notice of Allowability	Examin r	Art Unit)			
	Lee, Calvin	2825				
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Re of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due o	ed course. THIS			
1. This communication is responsive to						
2. A The allowed claim(s) is/are <u>1-52</u> .						
3. \boxtimes The drawings filed on <u>15 December 2003</u> are accepted by	the Examiner.					
 4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 						
2. Certified copies of the priority documents have	been received in Application No	·				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the						
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the req	uirements			
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF			
6. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.					
(a) \square including changes required by the Notice of Draftsperso	on's Patent Drawing Review (PTO-9	948) attached				
1) hereto or 2) to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the O	ffice action of				
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawin ne header according to 37 CFR 1.121(d	gs in the front (not the \parallel	back) of			
7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F			ote the			
Attachm nt(s)	_					
1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal Pa	• • • • • • • • • • • • • • • • • • • •)-152)			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary (Paper No./Mail Date	e <u>enclosed</u> .				
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 12/15/03	8), 7. ⊠ Examiner's Amendm	Examiner's Amendment/Comment				
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statemen	nt of Reasons for Allov	wance			
of Biological Material	9. 🔲 Other					

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Docket No: BLAN-9 Richard A. BLANCHARD

OFFICE ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312 IN THE CLAIMS: Claims 1, 14, 27, and 40, line 2, before "damage layer" with --a--

Claims 1, 14, 27, and 40, line 5, replace "masked, etch" with --mask for etching--Claim 1 line 14, claim 14 line 17, claim 27 line 14, and claim 40 line 17, replace "an layer of silicon dioxide" with --a layer of silicon dioxide --

2. Authorization for this examiner's amendment was given in a telephone interview with Richard K. Robinson on May 24, 2004.

Allowable Subject Matter

3. Claims 1-52 are allowed. Following is the reason for allowance:

The closest prior art, US 6,277,703 to *Barlocchi et al*, teaches using an oxide layer 22 as a mask for etching an epitaxial layer 16 to create a plurality of pillars 20a, 20b [Fig. 7 and 13], the plurality of pillars being enclosed in a first area of the top surface of the epitaxial layer, the first area having a predefine perimeter, the plurality of pillars being separated from each other by inner trenches 23 and from the perimeter by a perimeter trench 23. However, *Barlocchi et al* discloses, *inter alia*, none of the following features such as: the epitaxial layer having a damage layer, the inner trenches and the perimeter trench extending from the first surface to beyond the predetermined depth of damaged layer, and a layer of silicon dioxide replacing the damage layer.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

Any inquiry concerning this communication from the Examiner should be directed to *Calvin Lee* at (571) 272-1896, Monday to Thursday, from 7 to 5 (ET). If attempts to reach the examiner by telephone are unsuccessful, Art Unit 2825's Supervisory Patent Examiner *Matthew Smith* whose telephone number is (571) 272-1907.

Any inquiry relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0596. The fax phones are (703) 872-9318 for regular communications and (703) 872-9319 for After-Final communications.

MATTHEW SMITH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

May 26, 2004

Interview Summary	Application N	lo.	Applicant(s)		
	10/736,040		BLANCHARD, RICHARD A.		
	Examiner		Art Unit		
	Lee, Calvin		2825		
All participants (applicant, applicant's representative, PTO	personnel):				
(1) <u>Lee Calvin</u> .	(3)				
(2) Richard K. Robinson.	(4)				
Date of Interview: 24 May 2004.					
Type: a)⊠ Telephonic b)□ Video Conference c)□ Personal [copy given to: 1)□ applicant 2	?)□ applicant'	s representative]		
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description:	e)□ No.				
Claim(s) discussed: <u>1,14,27 and 40</u> .					
Identification of prior art discussed:					
Agreement with respect to the claims f) was reached. g)∐ was not re	eached. h)⊡ N	/A. .		
Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Claims 1, 14, 27, and 40, line 2, before "damage layer" witha Claims 1, 14, 27, and 40, line 5, replace "masked, etch" withmask for etching Claim 1 line 14, claim 14 line 17, claim 27 line 14, and claim 40 line 17, replace "an layer of silicon dioxide" witha layer of silicon dioxide (A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)					
THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.					
Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.	E	Examiner's signa	ature, if required		